

ABSTRACT OF THE DISCLOSURE

An inorganic scintillating mixture includes at least a first and a second component, each having a characteristic behavior in response to the irradiation with charged particles, such as protons and heavy ions, showing a typical Bragg peak with respect to a relative depth dose. The first component has a quenching characteristic in the Bragg peak region and the second component shows an increased efficiency in the Bragg peak region both related to a reference curve for the relative dose.